EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	0	sililarit$3 same ration same intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 15:32
L5	0	sililarit$3 same ratio same intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 15:32
L6	2	similarit$3 same ratio same intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:42
L7	0	("fourier-Mellin" or fourier adj mellin) and jaccard and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 16:52
L8	0	Fourier and similarit$3 and ratio same intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:43
L9	5	Fourier and similarit$3 and intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:47
L10	1690	Fourier and similarit$3 and image$1 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:47
L11	1690	Fourier and similarit$3 and image$1 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:47
L12	686	Fourier and similarit$3 same image$1 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:47
L13	120	Fourier same similarit$3 same image$1 and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:47
L14	1	13 and intersection same union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:57

EAST Search History

L15	1	13 and intersection and union and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:49
L16	0	13 and jaccard and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:49
L17	1	13 and "Fourier-Mellin" and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:49
L18	0	13 and multidimension$5 near space and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:59
L19	6	12 and multidimension$5 near space and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/04/06 17:59

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SIMILARITY MEASURES FOR RETRIEVAL IN CASE-BASED REASONING SYSTEMS - group of 2 »
TW LIAO - Applied Artificial Intelligence, 1998 - Taylor & Francis
... where the **intersection** (X Ç Y) describes the set ... 1995) de® ned the mutual **similarity**
coefficient for ... denoting the **ratio** of the number of attributes common ...
Cited by 27 - Web Search

A self-similar example of a piecewise isometric attractor
A Goetz - Dynamical systems (Luminy-Marseille, 1998) - math.sfsu.edu
... backward orbit of Y is a countable **union** of line ... Let E be the **intersection** of BC
and the line ... affine order reversing **similarity** f 1 whose **similarity ratio** k = 2 ...
Cited by 11 - View as HTML - Web Search

Efficient set joins on **similarity** predicates - group of 7 »
S Sarawagi, A Kirpal - Proceedings of the 2004 ACM SIGMOD International Conference ... - portal.acm.org
... the same even when produced via highly varied **similarity** predicates. ... to their overlap
amount (measured as the **ratio** of the size of the **intersection** and the ...
Cited by 3 - Web Search

[PS] **Intersection-Union** Tests in Dissolution Prole Testing - group of 3 »
JH Sierra-Cavazos, IC Monterrey, RL Berger - ncsu.edu
... words, the f 2 measure of **similarity** is just ... and give an easy to implement size
intersection- union test (IUT ... alternative hypothesis is that the **ratio** is within ...
Cited by 1 - View as HTML - Web Search

A fuzzy logic approach to detector scoring - group of 2 »
J Keller, J Moore, P Gader - Fuzzy Information Processing Society-NAFIPS, 1998 Conference ..., 1998 -
ieeexplore.ieee.org
... 81) MEDIUM (82) LARGE (83) L)()(II I— Wo,th Common Ares **Ratio** (X2) DISSIMILAR5 ...
We experimented with a variety of **union** and **intersection** operators, and ...
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A Fuzzy Logic Based Set of Measures for Software Project **Similarity**: Validation and Possible ... - group of 7 »
A Idri, A Abran - 7th IEEE International Software Metrics Symposium, IEEE ..., 2001 - doi.ieeecs.org
... by numerical variables (interval, **ratio** or absolute ... suggestions for improving our
similarity measures ... on fuzzy sets, such as **intersection**, **union**, complement, etc ...
Cited by 13 - Web Search

Similarity vs. Possibility in measuring Fuzzy Sets Distinguishability
C Mencar, G Castellano, AM Fanelli, A Bargiela - di.uniba.it
... Then, the **similarity** between A and B is upper-bounded ... being r the **ratio** between the
distance p B − p ... built so that the cardinality of the **intersection** is the ...
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Probable Equivalence, Superpower Sets, and Superconditionals - group of 3 »
P Suppes - INTERNATIONAL JOURNAL OF INTELLIGENT SYSTEMS, 2004 - doi.wiley.com
... B and the basic dual operations of **intersection** and **union** ... 0. The defining **ratio** of
probabilities (1) has the ... form of it as a measure of equality or **similarity**. ...
Web Search

Automatic Detection of Left Ventricular Shape in Short Axis Ultrasound Data Using a 3D Graph Search ... - group of 2 »
R VanderLeest, D McPherson, KB Chandran, EL Dove - COMPUTERS IN CARDIOLOGY, 1998 -
ieeexplore.ieee.org
... computer-detected contours. An **intersection**-to-**union ratio** (JUR) metric was
used to assess shape **similarity**. Linear regression yielded ...
Web Search - BL Direct

A new fast and fault-tolerant identification algorithm for spectral databases - group of 3 »
R Wallwitz, W Baumann - FRESENIUS JOURNAL OF ANALYTICAL CHEMISTRY, 1996 - Springer
... g), since it calculate the **similarity** by the **ratio** of areas. ... The **similarity** degree
of two spectra can then be determined ... discrete sets of **intersection** and **union** ...
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41 Shape analysis: Shape matching and anisotropy   ◼
Michael Kazhdan, Thomas Funkhouser, Szymon Rusinkiewicz
August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(344.15 KB)   Additional Information: full citation, abstract, references, index terms
                    🎬 mov(24:3 MIN)

With recent improvements in methods for the acquisition and rendering of 3D models, the need for retrieval of models has gained prominence in the graphics and vision communities. A variety of methods have been proposed that enable the efficient querying of model repositories for a desired 3D shape. Many of these methods use a 3D model as a query and attempt to retrieve models from the database that have a similar shape.In this paper we consider the implications of anisotropy on the shape matchin ...

Keywords: anisotropy, shape matching

42 On the support of recursive subdivision   ·   ◼
Ioannis P. Ivrissimtzis, Malcolm A. Sabin, Neil A. Dodgson
October 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(244.68 KB)   Additional Information: full citation, abstract, references, index terms

We study the support of subdivision schemes: that is, the region of the subdivision surface that is affected by the displacement of a single control point. Our main results cover the regular case, where the mesh induces a regular Euclidean tesselation of the local parameter space. If n is the ratio of similarity between the tesselations at steps k and $k - 1$ of the refinement, we show that n determines the extent of this region ...

Keywords: Cantor set, subdivision, support

43 XML stream processing using tree-edit distance embeddings   ◼
Minos Garofalakis, Amit Kumar
March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(726.56 KB)   Additional Information: full citation, abstract, references, index terms

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution is a novel algorithm for obliviously embedding tree-edit distance metrics into an $L1$ vector space while guaranteeing a (worst-case) upper bound of $O(\log^2 n \log\ast n)$ on the distance distortion betwee ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

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44 A study of the overlap among document representations

Padima Das-Gupta, Jeffrey Katzer

June 1983 **ACM SIGIR Forum , Proceedings of the 6th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '83**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(441.40 KB)   Additional Information: full citation, abstract, references

Most previous investigations comparing the performance of different representations have used recall and precision as performance measures. However, there is evidence to show that these measures are insensitive to an important difference between representations. To explain, two representations may perform similarly on these measures, while retrieving very different sets of documents. Equivalence of representations should be decided on the basis of similarity in performance and similarity in the ...

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45 From words to corpora: recognizing translation

Noah A. Smith

July 2002 **Proceedings of the ACL-02 conference on Empirical methods in natural language processing - Volume 10 EMNLP '02**

Publisher: Association for Computational Linguistics

Full text available: 📄 pdf(319.43 KB)   Additional Information: full citation, abstract, references

This paper presents a technique for discovering translationally equivalent texts. It is comprised of the application of a matching algorithm at two different levels of analysis and a well-founded similarity score. This approach can be applied to any multilingual corpus using any kind of translation lexicon; it is therefore adaptable to varying levels of multilingual resource availability. Experimental results are shown on two tasks: a search for matching thirty-word segments in a corpus where so ...

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46 Classical floorplanning harmful?

Andrew B. Kahng

May 2000 **Proceedings of the 2000 international symposium on Physical design**

Publisher: ACM Press

Full text available: 📄 pdf(29.17 KB)   Additional Information: full citation, references, citings, index terms

Keywords: VLSI floorplanning, block packing and layout, coarse placement, hierarchical design methodology

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47 A class-based approach to word alignment

Sue J. Ker, Jason S. Chang

June 1997 **Computational Linguistics**, Volume 23 Issue 2

Publisher: MIT Press

Full text available: ![icon] .pdf(2.00 MB) ![icon]   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>
<u>Publisher Site</u>

This paper presents an algorithm capable of identifying the translation for each word in a bilingual corpus. Previously proposed methods rely heavily on word-based statistics. Under a word-based approach, frequent words with a consistent translation can be aligned at a high rate of precision. However, words that are less frequent or exhibit diverse translations generally do not have statistically significant evidence for confident alignment, thereby leading to incomplete or incorrect alignments. ...

48 <u>Data modeling and security: Time-dependent affine triangulation of spatio-temporal data</u>

Sofie Haesevoets, Bart Kuijpers
November 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems**
Publisher: ACM Press

Full text available: ![icon] .pdf(233.15 KB)   Additional Information: <u>full citation,</u> <u>abstract</u>, <u>references</u>, <u>index terms</u>

In the geometric data model [6], spatio-temporal data are modelled as a finite collection of triangles that are transformed by time-dependent affinities. To facilitate querying and animation of spatio-temporal data, we present a <i>normal form</i> for data in the geometric data model. We propose an algorithm for constructing this normal form via a <i>spatio-temporal triangulation</i> of geometric data objects. This algorithm generates new geometric objects that form a partitio ...

Keywords: spatio-temporal data models, triangulations

49 <u>Subgroup Discovery with CN2-SD</u>

Nada Lavrač, Branko Kavšek, Peter Flach, Ljupčo Todorovski
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press

Full text available: ![icon] .pdf(435.37 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

This paper investigates how to adapt standard classification rule learning approaches to subgroup discovery. The goal of subgroup discovery is to find rules describing subsets of the population that are sufficiently large and statistically unusual. The paper presents a subgroup discovery algorithm, *CN2-SD*, developed by modifying parts of the CN2 classification rule learner: its covering algorithm, search heuristic, probabilistic classification of instances, and evaluation measures. Experi ...

50 <u>Complementary structures in disjoint science literatures</u>

Don R. Swanson
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press

Full text available: ![icon] .pdf(1.21 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

51 <u>A search engine for 3D models</u>

Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs
January 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 1
Publisher: ACM Press

Full text available: pdf(7.91 MB)   Additional Information: full citation, abstract, references, citings, index terms

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate new shape-based search methods. The key challenges are to develop query methods simple enough for novice users and matching algorithms robust enough to work for arbitrary polygonal models. We present a Web-based search engine system that support ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

52 Feature-based surface parameterization and texture mapping

Eugene Zhang, Konstantin Mischaikow, Greg Turk
January 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(419.27 KB)   Additional Information: full citation, abstract, references, index terms

Surface parameterization is necessary for many graphics tasks: texture-preserving simplification, remeshing, surface painting, and precomputation of solid textures. The stretch caused by a given parameterization determines the sampling rate on the surface. In this article, we present an automatic parameterization method for segmenting a surface into patches that are then flattened with little stretch.

Many objects consist of regions of relatively simple shapes, each of which has a natu ...

Keywords: Surface parameterization, segmentation, texture mapping, topology

53 A retrieval technique for similar shapes

H. V. Jagadish
April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data SIGMOD '91**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(1.04 MB)   Additional Information: full citation, references, citings, index terms

54 Extended Boolean information retrieval

Gerard Salton, Edward A. Fox, Harry Wu
November 1983 **Communications of the ACM**, Volume 26 Issue 11
Publisher: ACM Press
Full text available: pdf(1.11 MB)   Additional Information: full citation, references, citings, index terms

Keywords: Lp-vector norm, generalized distance measurement, information retrieval, online retrieval methods, query formulation

55 Learning word clusters from data types
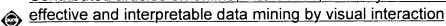
Paolo Allegrini, Simonetta Montemagni, Vito Pirrelli
July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 1**
Publisher: Association for Computational Linguistics

Full text available: pdf(648.33 KB)   Additional Information: full citation, abstract, references

> The paper illustrates a linguistic knowledge acquisition model making use of data types, infinite memory, and an inferential mechanism for inducing new information from known data. The model is compared with standard stochastic methods applied to data tokens, and tested on a task of lexico-semantic classification.

56 Contributed articles on online, interactive, and anytime data mining: Towards effective and interpretable data mining by visual interaction
Charu C. Aggarwal
January 2002 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(1.18 MB)   Additional Information: full citation, abstract, references, citings

> The primary aim of most data mining algorithms is to facilitate the discovery of concise and interpretable information from large amounts of data. However, many of the current formalizations of data mining algorithms have not quite reached this goal. One of the reasons for this is that the focus on using purely automated techniques has imposed several constraints on data mining algorithms. For example, any data mining problem such as clustering or association rules requires the specification of ...

57 Geographic Data Processing
George Nagy, Sharad Wagle
June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2
Publisher: ACM Press
Full text available: pdf(4.20 MB)   Additional Information: full citation, references, citings, index terms

58 Geometric matching under noise: combinatorial bounds and algorithms
Piotr Indyk, Rajeev Motwani, Suresh Venkatasubramanian
January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(1.02 MB)   Additional Information: full citation, references, citings, index terms

59 Session 12B: On finding a guard that sees most and a shop that sells most
Otfried Cheong, Alon Efrat, Sariel Har-Peled
January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(313.48 KB)   Additional Information: full citation, abstract, references, citings

> We present a near-quadratic time algorithm that computes a point inside a simple polygon P having approximately the largest visibility polygon inside P, and near-linear time algorithm for finding the point that will have approximately the largest Voronoi region when added to an n-point set. We apply the same technique to find the translation that approximately maximizes the area of intersection of two polygonal regions in near-quadratic time.

60 Removing excess topology from isosurfaces
Zoë Wood, Hugues Hoppe, Mathieu Desbrun, Peter Schröder
April 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 2
Publisher: ACM Press

Full text available: ▦ pdf(1.33 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Many high-resolution surfaces are created through isosurface extraction from volumetric representations, obtained by 3D photography, CT, or MRI. Noise inherent in the acquisition process can lead to geometrical and *topological* errors. Reducing geometrical errors during reconstruction is well studied. However, isosurfaces often contain many topological errors in the form of tiny handles. These nearly invisible artifacts hinder subsequent operations like mesh simplification, remeshing, and ...

Keywords: Topological artifacts, genus reduction, marching cubes, surface reconstruction

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